

Requirements for IPv6 Customer Edge Routers

draft-ietf-v6ops-ipv6-cpe-router-02

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v6ops Working Group

Hemant Singh (shemant@cisco.com)

Wes Beebee (wbeebee@cisco.com)

Chris Donley ([CableLabs](#))

Barbara Stark ([AT&T](#))

Ole Trøan, Editor (ot@cisco.com)

Changes since -01 version...

- Split the work in two phases. Move all contentious issues to phase 2
- “Merge” with draft-donley-ipv6-cpe-rtr-use-cases-and-reqs-00
- Added new authors from CableLabs and Broadband Forum (DSL)
- Many actors and specifications in this space: CableLabs, BBF, HGI, UPnP...
- Changed format of the document as per Internet Area AD suggestion to be purely an Architecture/Use Cases/Requirements document.

Changes since -01 version...

- Phase 1 limited to basic IPv6 functionality. Provisioning of the WAN and LAN interfaces and basic router and security functions.
- Only reference published RFCs (no experimentals) or drafts ready for last call.
- All else is moved to phase 2.
 - Multicast/MLD proxy
 - DNS
 - ND proxy
 - Hierarchical DHCP PD
 - Qos, Path MTU, etc. also moved to bis doc

Goals

- Reach v6ops consensus
- WG last call (one more rev?) by end of year
- Start work on the phase 2 document

Phase 2

- Multicast routing
- DNS server/Proxy
- Hierarchical Prefix Delegation / plug and play routing / zero-configuration
- Advanced security
- IPv6 transition mechanisms
- Service Discovery / Firewall control protocols
- Managability
- Conceptual configuration variables
- Multi-homing
- ND-proxy
- QoS/Path MTU discovery
- BFD echo mode